## AMENDMENTS TO THE SPECIFICATION AND ABSTRACT

In the specification, page 1, after the title, please insert the following heading:
BACKGROUND OF THE INVENTION

In the specification, page 1, line 5, please amend the sub-heading as follows:

1. TECHNICAL FIELD OF THE INVENTION

In the specification, page 1, line 13, please amend the sub-heading as follows:

2. DESCRIPTION OF THE RELATED BACKGROUND-ART

In the specification, page 1, paragraph [0002], please amend the paragraph as follows:

There have been three-dimensional shape displaying devices for drawing a three-dimensional shape by using <u>a</u> Z buffer algorithm as a hidden surface removal system. Also, there have been techniques for increasing a speed of drawing processing of such a three-dimensional shape displaying device, for example, a technique in which each pixel contains one bit flag memory (e.g., patent document 1) and a technique which uses a degenerated Z buffer for, among a plurality of depth values of pixels, storing a depth value of a farthest pixel from a view point and a depth value of a nearest pixel from the view point (e.g., patent document 2).

In the specification, page 4, paragraph [0013], please amend the paragraph as follows:

As described above, the conventional three-dimensional shape drawing device described described in the patent document 2 accesses the Z main buffer 206 only when the Z value of the pixel to be newly drawn is between the maximum Z value and the minimum Z value of the block

in which the pixel is positioned. As a result, the frequency of accessing the Z main buffer 206 is reduced.

[Patent Document 1] Japanese Laid-Open Patent Publication No. 62-42281

[Patent Document 2] Japanese Laid-Open Patent Publication No. 8-161526 (pages 5-7, FIGS. 1 and 4)

In the specification, page 4, lines 17 and 18, please amend the heading as follows:

**DISCLOSURE OF THE INVENTION** 

PROBLEMS TO BE SOLVED BY THE INVENTION

BRIEF SUMMARY OF THE INVENTION

In the specification, page 5, line 10, please amend the heading as follows:

**SOLUTION TO THE PROBLEMS** 

In the specification, page 8, line 15, please amend the heading as follows:

**EFFECT OF THE INVENTION** 

In the specification, pages 8-9, paragraph [0019], please amend the paragraph as follows:

[FIG. 1]—FIG. 1 is a functional block diagram showing a configuration of a threedimensional shape drawing device according to an embodiment of the present invention.

[FIG. 2] FIG. 2 is a diagram schematically showing a depth value retained by a high order Z-buffer memory 102 and a low order Z-buffer memory 104.

[FIG. 3]—FIG. 3 is a flowchart showing operations of the three-dimensional shape drawing device shown in FIG. 1.

[FIG. 4]—FIG. 4 is a flowchart showing a detailed process at subroutine step S19 shown in FIG. 3.

[FIG. 5]—FIG. 5 is a block diagram showing an exemplary hardware configuration of the three-dimensional shape drawing device.

[FIG. 6]—FIG. 6 is a block diagram showing an exemplary hardware configuration of the three-dimensional shape drawing device.

[FIG. 7]—FIG. 7 is a block diagram showing a configuration of a three-dimensional shape drawing device 200 described in a patent document 2.

[FIG. 8]—FIG. 8 schematically shows a screen 214 for displaying a three-dimensional shape drawn by the three-dimensional shape drawing device of FIG. 7 and a configuration of a ZR buffer 205.

In the specification, page 9, line 21, please amend the heading as follows:

## DESCRIPTION OF THE REFERENCE CHARACTERS

In the specification, pages 9-10, paragraph [0020], please amend the paragraph as follows:

101 drawing section

102 high order Z-buffer memory

103 image memory

104 low order Z-buffer memory

105 high order bit comparing section

106 low order bit comparing section
107 high order Z-buffer clearing section
108 low order Z-buffer clearing section]
110 depth value calculation section
111 brightness and material calculation section
121_CPU
122 high speed graphics memory
123 low-speed graphics memory
201 image composing section
202 drawing processing section
203 frame buffer
204 palette circuit
——————————————————————————————————————
206 Z main buffer
207 display section
208 image supply section
209 pixel drawing section
210 drawing determination section
211 maximum Z value within a block
212 minimum Z value within a block
213 example of a block resulting from dividing a screen
——————————————————————————————————————
401, 402 figures

403	nival	comprising	a figure
105	pixei	comprising	a nguic

In the specification, page 11, line 2, please amend the heading as follows:

BEST MODE FOR CARRYING OUT DETAILED DESCRIPTION OF THE INVENTION

In the specification, page 30, line 2, please amend the heading as follows:

INDUSTRIAL APPLICABILITY